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VOCATIONAL AGRICULTURE TEACHER MORALE STUDY--A COMPARISON OF SELECTED FACTORS IN SCHOOLS WHERE THE MORALE OF VOCATIONAL AGRICULTURE TEACHERS IS "HIGH" W TH SCHOOLS WHERE THE MORALE OF VOCATIONAL AGRICULTURE TEACHERS IS "LOW".

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DESCRIPTORS- *VOCATIONAL AGRICULTURE TEACHERS, TEACHER CHARACTERISTICS, *STUDENT ATTITUDES, STUDENT PROBLEMS, ACADEMIC APTITUTDE, *TEACHER MORALE. ANALYSIS OF VARIANCE, FACTOR ANALYSIS,

A STUDY WAS UNDERTAKEN TO DETERMINE WHETHER DIFFERENCES EXISTED WITH RESPECT TO STUDENT ATTITUDE TOWARD THEIR TEACHER, FEELINGS ABOUT SCHOOL WORK PROBLEMS, AND ACADEMIC APTITUDE BETWEEN VOCATIONAL AGRICULTURE DEPARTMENTS IN WHICH TEACHER MORALE WAS HIGH AND THOSE IN WHICH TEACHER MORALE WAS LOW. THE TEACHER SAMPLE INCLUDED 21 WITH THE HIGHEST MORALE AND 21 WITH THE LOWEST MORALE OF 263 INDIANA VOCATIONAL AGRICULTURE TEACHERS WHO RESPONDED TO THE PURDUE TEACHER MORALE INVENTORY. DIFFEFENCES IN TEACHER GROUP CHARACTERISTICS WERE AGE, EDUCATION, EXPERIENCE, ASSIGNMENT, TENURE, SALARY, SATISFACTION, AND OFTIMISM. THERE WAS SIGNIFICANT DIFFERENCE BETWEEN THE TWO GROUPS' RESPONSE TO THE VOCATIONAL AGRICULTURE VIEWFOINT INQUIRY, BUT NONE BETWEEN THE HIGH SCHOOL PRINCIPALS OF THE TWO GROUPS. THE MINNESOTA STUDENT ATTITUDE INVENTORY (MSAI), SCIENCE RESEARCH ASSOCIATE (SRA) YOUTH INVENTORY, AND THE LORGE-THORNDIKE INTELLIGENCE TEST WERE ADMINISTERED TO THE AGRICULTURE STUDENTS OF TEACHERS IN THE SAMPLE. DATA SUBJECTED TO AN ANALYSIS OF VARIANCE AND A FACTORIAL DESIGN SHOWED THAT MASI SCORES WERE HIGHEST FOR STUDENTS WITH HIGH IQ OF TEACHERS WITH HIGH MORALE. NO SIGNIFICANT DIFFERENCES WERE FOUND BETWEEN STUDENTS OF HIGH MORALE AND THOSE OF LOW MORALE THACHERS ON MEAN SRA SCORES, BUT DIFFERENCES RELATED TO THE RURAL-URBAN FACTOR AND GRADE LEVEL WERE FOUND. THE 19 LEVEL PLAYED AN IMPORTANT ROLE IN ALL COMPARISONS. (JM)

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VOCATIONAL AGRICULTURE
TEACHER MORALE STUDY

DEPARTMENT OF EDUCATION
Purdue University

in cooperation with

Division of Vocational Education Indiana State Department of Public Instruction

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/ VOCATIONAL AGRICULTURE TEACHER MORALE STUDY - -

/AA Comparison of Selected Factors in Schools
Where the Morale of Vocational Agriculture Teachers
is 'High' with Schools Where the Morale of
Vocational Agriculture Teachers is' /Low."

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VOCATIONAL AGRICULTURE TEACHER MORALE STUDY

"A Comparison of Selected Factors in Departments of Vocational Agriculture Where the Morale of the Teachers is 'High' With Departments Where the Morale of Vocational Agriculture Teachers is 'Low.'"

I. INTRODUCTION

It is generally assumed that teacher morale is an important factor in achieving desirable educational outcomes. School authorities and others have been concerned about teacher welfare and adjustment to the school and community because of the assumed importance attached to the influence of teacher morale on student attitudes and student learning.

This seems to be a reasonable hypothesis. Satisfaction of the felt needs of teachers would appear to be intimately bound up with the satisfaction of the felt needs of students. The creative, personal nature of the teaching process would seem to require a feeling of satisfaction with the total school environment on the part of the teacher. Yet, actual evidence confirming this hypothesis is limited. Only a few studies have been focused on this problem.

An increasing number of studies have been designed to determine the effect of such factors as school district reorganization, school facilities, and instructional materials on educational outcomes. However, it might well be argued that the teacher is the key factor in the learning situation. Too little is known about the effect of the teacher's attitudes and feelings on the learner. More specifically, is the teacher's morale an important factor in the learning situation? Do the feelings of teachers about their work and the school-community environment influence student attitudes and achievement?

In an attempt to improve the quality of the learning experiences that the school provides, answers to such questions are important. Greater insight is needed into the various ways and the degrees to which teacher attitudes and feelings influence student attitudes regarding the teacher and the learning situation.

II. BACKGROUND OF THE STUDY

For the last three years, a series of studies pertaining to teacher morale have been conducted by the Department of Education at Purdue University. In the first study, the Purdue Teacher Morale Inventory was developed, designed to measure teacher morale. The instrument was then used to study the relationship of certain selected factors to the morale of about 500 teachers in 22 Indiana high schools. A similar project was conducted with vocational agriculture teachers in Indiana.

In these studies it was found that morale scores for teachers varied greatly and it was possible to identify teachers having extremely "high" morale and teachers having extremely "low" morale. The identification of teachers differing greatly with respect to morale sugtested that other differences might exist in the schools and classrooms in which these teachers were employed.

The findings of the above studies and their possible implications were discussed with the State Director of Vocational Education and members of his staff. These discussions led to the development of a research proposal involving teachers of vocational agriculture which was submitted to the State Board of Vocational Education. Funds were made

² This study was conducted in cooperation with the Research Committee of the Indiana Vocational Agriculture Teachers' Association.



Data concerning the validity and reliability of the instrument are given in the Manual for the Purdue Teacher Morale Inventory, The University Book Store, 310 State Street, West Lafayette, Indiana.

available making it possible to conduct the study that was proposed.

III. PURPOSE OF THE STUDY

The main purpose of the study was to determine whether significant differences exist with respect to selected factors in departments of vocational agriculture where the morale of the teachers was "high" and those where the morale of the teachers was "low." Specifically, the factors selected for study were:

- 1. Student attitudes regarding their vocational agriculture teachers.
- 2. Student feelings about the extent and intensity of problems related to their school work.
- 3. Student academic aptitude.

IV. PROCEDURES

A. The Teacher Sample

Two groups of 25 agriculture teachers were tentatively selected on the basis of their level of morale. One group consisted of teachers whose morale scores were among the highest of 263 teachers who responded to the Purdue Teacher Morale Inventory during the spring of 1961. The other group consisted of those whose morale scores were among the lowest. Only teachers were included in the study who held the same position in 1961-62 as they held the previous year and who did not have marked changes in their morale scores between 1961 and 1962. It might be pointed out that these teachers were fairly evenly distributed throughout the state.

The 42 teachers finally selected, 21 "high" morale and 21 "low" morale, together with their 1961 and 1962 morale scores, are shown in Table I.



TABLE I.

MORALE SCORES FOR "HIGH" AND "LOW" TEACHER MORALE GROUPS

"H1 ₁	gh" Morale Gro	up	uI	ow" Morale Grou	p
eacher Code	Morale Score	s by Years 1962	Teacher Code	Morale Scores 1961	by Years 1962
2	92	93	1	28	29
3	121	120	5	24	64
7	120	109	6	29	53
8	92	92	9	9	39
10	132	137	11	21	60
18	91	141	12	28	24
19	92	. 93	13	25	15
20	111	109	16	16	32
23	92	. 87	22	18	6
25	104	84 .	26	25	11
27	97	84	29	19	14
33	117	129	32	12	14
34	111	127	35	26	24
37	113	138	36	17	54
38	136	123	39	19	71.
40	111	110	41	15	21
42	99	98	46	29	13
43	100	113	48	30	56
45	100	114	53	30	51
47	116	101	15	29	39
54	89	99	60	30	43
Mean =	107.48	109.57	Mean =	22.76	34 . 76

S.D. = 3.11 4.05

Although the teachers included in this study were selected and grouped entirely on the basis of their morale scores, other available information regarding them indicate clearly that the "high" and the "low" teacher morale groups differed with respect to several factors other than morale. A summary of this information is given in Tables II and III.

TABLE II.

Comparison of Personal Data
For "High" and "Low" Morale Teachers

٨.	Age

Level of		Age in Years				
Morale	N_	Less than 31	31-40	41-50	More than 50	
		K	*	%	*	
"High"	21	24	29	33	14	
"Low"	21	33	24	29	14	

B. Education

Level of

Level of Education		
B.S. Degree	M.S.	Degree
and 12 Sem. Hrs.	or	More
8		K

Morale	N	B.S. Degree	and 12 Sem. nrs.	or More
		%	8	K
"High"	21	14	29	57
"Low"	21	29	19	52

C. Teaching Experience

Level of		Years o	of Teachi	ng Experier	nce
Morale	N	Less than 6	6-14	15-24	More than 24
		%	%	K	%
"High"	21	19	33	38	10
"Low"	21	43	33	10	· 14

D. Percentage of School Day Devoted to Vocational Agriculture According to Rural-Urban School Groups

Level of	N	More Than	30-50%	Less Than
Morale		50% Rural	Rural	30% Rural
"High" "Low"	21 21	% 71 64	% 70 66	\$ 64 49

Obtained from State Department of Public Instruction Reports, Vocational Agriculture Viewpoint Inquiry (see Appendix A), and Personal Data Form (see Appendix B).

E. Number of Years in Present Position

Level of Morale	N	Less Than 5 Years	5-10 Years	More Than 10 Years
<u> </u>		%	8	K
"High"	21	33	24	43
"Low"	21	52	24	24

F. Tenure Status

Level of		Ten	ure	
Morale	N	Y es	<u>No</u>	
		8	**	
"High"	21	43	57	
"High" "Low"	21	10	90	

G. Annual Salary

Level of Morale	N	Mear 1959-60	Salary by Yea 1960-61	rs 1961–62
"High" "Low"	21	\$6849	\$7469	\$7846
	21	\$6204	\$6608	\$6869

H. Satisfaction with Present Position

Level of Morale	N	Al	B ²	c 3	D ⁴
		8	%	%	%
"High"	21	95	5	Ö	0
"High" "Low"	21	24	52	19	5

Al Thoroughly satisfied; no desire to change.

B2 Satisfied but would consider a change.

D4 Thoroughly dissatisfied.

I. Future of Vocational Agriculture in Indiana is Encouraging

Level of Morale	N	Strongly Agree	Probably Agree	Probably Disagree	Strongly Disagree
		K	%	%	%
"High"	21	71	10	14	5
"Low"	21	14	52	19	14

J. If Starting College Work Over Again, Would Choose to Specialize in Agricultural Education

Level of Morale	N	v 38	Uncertain_	No	
		<u> </u>	K	%	
"High"	21	57	29	14	
"Low"	21	48	19	33	



c3 Somewhat dissatisfied; would change if I could.

The percentages shown in Table II indicate that the "high" morale teachers when compared with the "low" morale teachers were somewhat older; had more education; had more teaching experience; devoted a larger proportion of their school day to teaching vocational agriculture; were employed more years in their present teaching positions; were more likely to have tenure status, and had higher annual salaries. The "high" morale group also indicated a higher degree of satisfaction with their present positions, believed more strongly that the future of vocational agriculture in Indiana was encouraging, and were more likely to choose a career in Agricultural Education if they were starting their college work over again.

Information obtained when the Vocational Agriculture Viewpoint
Inquiry was administered to the agriculture teachers showed that the
"high" morale group responded more favorably than did the "low" morale
group to basic issues pertaining to vocational agriculture. However,
when the above mentioned instrument was administered to the high school
principals of the two teacher groups, their mean responses were not
significantly different. (See Table III.)

Vocational Agriculture Viewpoint Inquiry Mean Scores for Vocational Agriculture Teachers and Their Principals According to "High" and "Low" Teacher Morale Groups

	Teacher Morale Groups " <u>High</u> " " <u>Low</u> "			Mean		
	Mean_	S.D.	Mean_	s.D.	Diff.	t
Vocational Agriculture Teachers	68.33	5.45	63.40	5.71	4.93	P <.05
School Principals	58.90	12.73	59.15	7.07	.25	NS



B. The Student Sample

The student sample consisted of all the students enrolled in the vocational agriculture classes taught by the teachers included in this study. In all cases there were some students in each of the four high school grades. The percentage distribution of the vocational agriculture students by grades in schools where the "high" morale and "low" morale teachers were employed was not significantly different. (See Table IV.)

TABLE IV.

Distribution of Boys Enrolled in Vocational Agriculture by Grades in Schools Where "High" and "Low" Morale Teachers are Employed

Morale	Number of	Percenta	ge Distri	bution by	Grades
Group	Boys	9	<u> </u>	11	12
"High"	972	% 32 . 20	% 26.03	% 20 . 47	21.30
"Low"	780	32.05	26.03	20.64	21.28

Neither was there a significant difference in the percentage distribution of these two groups of students with respect to the size of their home farms. (See Table V.)

Distribution of Vocational Agriculture Students
According to Size of Home Farm in Schools
Where "High" and "Low" Morale Teachers are Employed

		Percentage	Distribution	by Size	of Home Farm
Morale Group	Number of Students	More Than 240 Acres	• •	10-140 Acres	Less Than 10 Acres
		% ·	%	78	*
"High"	972	17.70	21.91	38.58	21.81
"Low"	761	22.60	21.42	31.80	24.15



C. Collection of Basic Data

The following instruments were used to collect data regarding the students in each of the vocational agriculture classes taught by the teachers in the study.

- a. The Minnesota Student Attitude Inventory (MSAI) -- to determine the attitudes of students regarding their vocational agriculture teacher.
- b. The SRA Youth Inventory (My School Section) -- to measure the attitudes of the students about the extent and intensity of problems related to their school work.
- c. The Lorge-Thorndike Intelligence Test (Verbal Form) -- to measure the academic aptitude of the students.

D. Testing Procedures

The tests and inventories were administered by the local staff person usually assigned to school testing in each of the cooperating schools. Arrangements for test administration were made through a personal visit by one of the project directors. In all cases the principal, the person in charge of testing (usually the director of guidance), and the vocational agriculture teacher were contacted in order to reach a mutual understanding of the testing procedures which were to be used.

In some cases, the Lorge-Thorndike Intelligence Test was administered by the agriculture teacher. However, in all cases the MSAI and the SRA Youth Inventory were handled by some person other than the agriculture teacher.

E. Analysis of Data

Analysis of variance procedures were used to determine whether significant differences existed in the mean MSAI and mean SRA Youth Inventory



scores in "high" and "low" teacher morale situations. Other factors taken into account in the analysis were grade level, level of IQ, and the rural-urban composition of the high school.

A 2x3x4x3 factorial design was used to test the main effects and interactions of the four factors listed above, using MSAI scores and SRA Youth Inventory scores as criterion measures. The treatment combinations in the factorial experiment are represented schematically as follows:

		"High"	Mora	le	"Low"	Mora	le
Rural-Urban		•	•			_	,
School Groups	Level of	1	2	3	4	5	6
Grade	IQ						
	High	$\overline{\mathtt{Y}}_{\mathbf{c}}$	$\overline{\mathtt{Y}}_{\mathbf{c}}$	$\overline{\mathtt{Y}}_{\mathbf{c}}$	$\overline{\mathtt{Y}}_{\mathbf{c}}$	$\overline{\mathtt{Y}}_{\mathbf{c}}$	$\overline{\mathtt{Y}}_{\mathbf{c}}$
9	Med.	$\overline{\mathtt{Y}}_{\mathbf{c}}$	$\overline{\mathtt{Y}}_{\mathbf{c}}$	$\overline{\mathtt{Y}}_{\mathbf{c}}$	$\overline{\mathtt{Y}}_{\mathbf{c}}$	$\overline{\mathtt{Y}}_{\mathbf{c}}$	$\overline{\mathtt{Y}}_{\mathbf{c}}$
	Low	$\overline{\mathtt{Y}}_{\mathbf{c}}$	$\overline{\mathtt{Y}}_{\mathbf{c}}$	$\overline{\mathtt{Y}}_{\mathbf{c}}$	$\overline{\mathtt{Y}}_{\mathbf{c}}$	Yc	<u>Ŧ</u> c
	High	$\overline{\mathtt{Y}}_{\mathbf{c}}$	Y _c	$\overline{\mathtt{Y}}_{\mathbf{c}}$	$\overline{\mathtt{Y}}_{\mathbf{c}}$	$\overline{\mathtt{Y}}_{\mathbf{c}}$	Y _c
10	Med.	$\overline{\mathtt{Y}}_{\mathbf{c}}$	Y c	Y c	$\overline{\mathtt{Y}}_{\mathbf{c}}$	$\overline{\mathtt{Y}}_{\mathbf{c}}$	T c
	Low	$\overline{\mathtt{Y}}_{\mathbf{c}}$	$\overline{\mathtt{Y}}_{\mathbf{c}}$	$\overline{\mathtt{Y}}_{\mathbf{c}}$	$\overline{\mathtt{Y}}_{\mathtt{C}}$	$\overline{\mathtt{Y}}_{\mathbf{c}}$	Y _c
	High	$\overline{\mathtt{Y}}_{\mathbf{c}}$	₹ _c	$\overline{\mathtt{Y}}_{\mathbf{c}}$	$\overline{\mathtt{Y}}_{\mathbf{c}}$	T c	T c
11	Med.	$\overline{\mathtt{Y}}_{\mathbf{G}}$	$\overline{\mathtt{Y}}_{\mathbf{c}}$	$\overline{\mathtt{Y}}_{\mathbf{c}}$	$\overline{\mathtt{Y}}_{\mathbf{c}}$	$\overline{\mathtt{Y}}_{\mathbf{c}}$	$\overline{\mathtt{Y}}_{\mathbf{c}}$
	Low	$\overline{\mathtt{Y}}_{\mathbf{c}}$	$\overline{\mathtt{Y}}_{\mathbf{c}}$	₹ _c	$\overline{\mathtt{Y}}_{\mathtt{C}}$	$\overline{\mathtt{Y}}_{\mathbf{c}}$	$\overline{\mathtt{Y}}_{\mathbf{c}}$
	High	₹ _c	<u>¥</u> c	$\overline{\mathtt{Y}}_{\mathbf{c}}$	<u>¥</u> c	$\overline{\mathtt{Y}}_{\mathbf{c}}$	₹ _c
12	Med.	$\overline{\mathtt{Y}}_{\mathbf{c}}$	$\overline{\mathtt{Y}}_{\mathbf{c}}$	<u>y</u> c	$\overline{\mathtt{Y}}_{\mathbf{c}}$	$\overline{\mathtt{Y}}_{\mathbf{c}}$	$\overline{\mathtt{Y}}_{\mathbf{c}}$
	Low	$\overline{\mathtt{Y}}_{\mathbf{c}}$	$\overline{\mathtt{Y}}_{\mathbf{c}}$	$\overline{\mathtt{Y}}_{\mathbf{c}}$	$\overline{\mathtt{Y}}_{\mathbf{c}}$	$\overline{\mathtt{Y}}_{\mathtt{c}}$	Y c

All factors in the experiment were fixed with the rural-urban factor being nested under the morale factor. The experiment was carried out using the MSAI scores and SRA Youth Inventory scores as criterion measures. Rural-urban groupings were based on the percentage of the



total boys in the high school who were farm boys — groups one and four, more than 50 per cent farm boys; groups two and five, 30 to 50 per cent farm boys; groups three and six, less than 30 per cent farm boys. The three IQ levels set up on the basis of IQ scores were "high," more than 105; "middle," 95 to 105; and "low" less than 95.

V. RESULTS

A. Minnesota Student Attitude Inventory

The summary of the analysis of variance, using the 2x3x4x3 factorial design described previously, is given in Table VI. The analysis reveals that a significant difference exists between the MSAI mean score for the students of teachers in the "high" morale group and the mean score for the students of teachers in the "low" morale group. Differences are also significant when mean scores are compared for different levels of intelligence. Differences across grades are non-significant.

None of the interactions tested are significant.

Table VII presents the mean MSAI scores for students of "high" and of "low" morale teachers by grade and level of IQ. It can be seen, then, when comparisons are made by grade, without respect to IQ, that the ninth grade students of "low" morale teachers react more favorably to their teachers than the ninth grade students of "high" morale teachers. However, in the other three grades, students of "high" morale teachers react more favorably with the greatest difference in MSAI mean scores between the two groups occurring in the twelfth grade. The grade comparison is shown graphically in Figure I.

In Figure II, a graphical comparison is made of MSAI scores according to level of IQ, but without respect to grades. For each drop in the level of IQ, there is a corresponding drop in mean MSAI scores. This holds true for the students of both "high" and of "low" morale teachers.

A comparison of mean MSAI scores for students of "high" and "low" morale teachers and level of IQ is presented in Figure III.

Summary of Analysis of Variance
For Minnesota Student Attitude Inventory Mean Scores

3	100 70			
	483.12	161.04	2.37	NS
1	284.89	284.89	4.20	P < .05
4	1314.86	328.72	4.84	P <.05
3	399.40	133.13	1.96	NS
12	960.95	80.08	1,18	NS
2	935.01	467.54	6.89	P <.05
6	186.80	31.13	0.46	NS
2	37.73	18.86	0.28	NS
8	571.14	71.39	1.05	NS
6	148.02	24.67	0.36	NS
24	1,925.90	80.24	1.18	NS
1467	1,362,913.60*	929.0481	$s_{\overline{x}}^2 = \epsilon$	67.8439
	4 3 12 2 6 2 8 6	4 1314.86 3 399.40 12 960.95 2 935.01 6 186.80 2 37.73 8 571.14 6 148.02	4 1314.86 328.72 3 399.40 133.13 12 960.95 80.08 2 935.01 467.54 6 186.80 31.13 2 37.73 18.86 8 571.14 71.39 6 148.02 24.67 24 1,925.90 80.24	4 1314.86 328.72 4.84 3 399.40 133.13 1.96 12 960.95 80.08 1.18 2 935.01 467.54 6.89 6 186.80 31.13 0.46 2 37.73 18.86 0.28 8 571.14 71.39 1.05 6 148.02 24.67 0.36 24 1,925.90 80.24 1.18

Total 1538

For all three IQ levels, the students of "low" morale teachers begin with somewhat higher MSAI scores in the nirth grade. In the other grades, for all IQ levels, the advantage shifts to the students of "high" morale



^{*} Per Observation Basis -- $\bar{n}_h = \frac{72}{5.2578} = 13.6939$

teachers and becomes greatest in the twelfth grade. In some instances the MSAI scores for students in the "medium" IQ group are higher than the corresponding scores for the students in the "high" IQ group.

TABLE VII.

Mean MSAI Scores for Students of "High" and of "Low" Morale Teachers

According to School Grades and Level of IQ

Students of "High" Morale Teachers										
	Grades All									
Level of IQ	9	10	11	12	Students					
"High"	237.69	236.79	229.54	236.78	235,20					
	(77)*	(45)	(291)	(32)	(183)					
"Medium"	231.44	232.51	232 . 23	232.00	232.04					
	(152)	(132)	(95)	(90)	(469)					
"Low"	227,50	226.40	224 . 40	231.55	227.46					
	(51)	(43)	(47)	(35)	(176)					
All Students	232.21	231 . 90	228.72	233.44	231.57					
	(280)	(220)	(171)	(157)	(828)					
	Students o	of "Low" Mon	rale Teacher	rs						
		Gra	ades		All					
Level of IQ	9	10	11	12	Students					
"High"	241.86	231.84	224 . 83	225 . 64	231.04					
	(49)	(35)	(13)	(27)	(124)					
"Medium"	234.66	227 . 14	228.68	229 . 20	229 . 22					
	(123)	(98)	(86)	(85)	(392)					
"Low"	228 . 50	224 . 57	220 . 22	213 . 93	221.81					
	(58)	(47)	(51)	(39)	(195)					
All Students	235.01	227.85	224.58	222 . 92	22 7. 59					
	(230)	(180)	(150)	(151)	(711)					

^{*} Numbers in parentheses indicate the number of students.

FIGURE 1

Mean MSAI Scores for Students of "High" and of "Low" Morale Teachers

According to School Grades

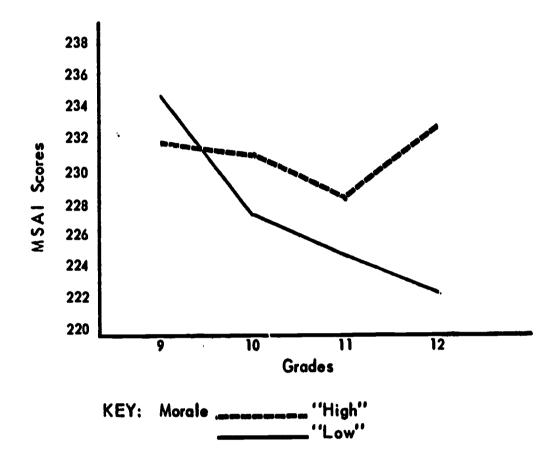
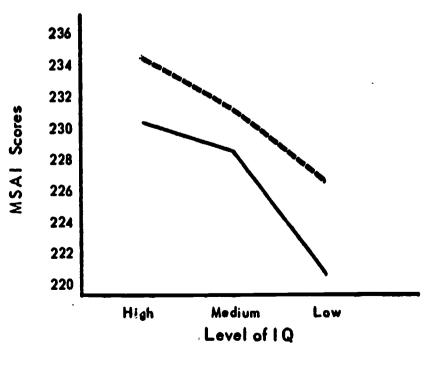


FIGURE 11
.
Mean MSAI Scores for Students of "High" and of "Low" Morale Teachers
According to Level of IQ

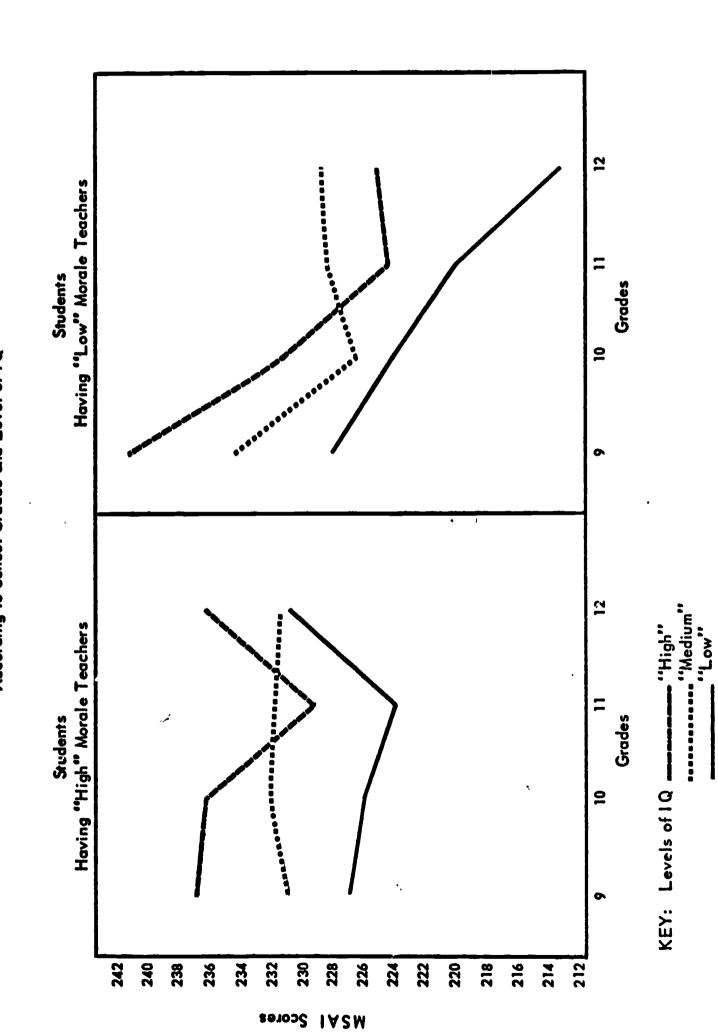


KEY: Morale"'High"



FIGURE III

Mean MSA! Scores for Students of "High" and of "Low" Morale Teachers
According to School Grades and Level of I.Q.





The extent to which the high schools in the study were rural, as indicated by the percentage of boys that were farm boys, was used as another basis of comparison. In Table VIII the mean MSAI scores are compared for students of "high" and of "low" morale teachers according to the rural-urban groupings and levels of IQ. A graphical presentation of MSAI mean scores for each of the rural-urban groups is made in Figure IV. It can be seen that for both "high" and "low" teacher morale groups this score was highest for the "30 to 50 per cent rural" group and lowest for the "less than 30 per cent rural" group. This is true when the same comparisons are made for each IQ level, particularly for the students of "low" morale teachers (see Figure V). However, the "medium" IQ group shows some overlap with both of the other IQ groups.

In general, differences in mean MSAI scores differed significantly with respect to the rural-urban groupings within each of the teacher morale categories (Table VIII).

Table IX presents the 62 MSAI items, the percentages of responses by item for students of "high" and of "low" morale teachers, and those items where there are significant differences between the responses of the students of the two teacher morale groups. Statistically significant differences were found to exist for 18 items and in each instance the difference was favorable to the "high" morale teachers. Although the observed differences for the remaining 44 items were not significant, it should be noted that, in general, student responses showed a definite tendency to favor the "high" morale teachers. The following items were among those that elicited significantly more favorable student responses for "high" morale teachers:



TABLE VIII.

Mean MSAI Scores for Students of "High" and of "Low" Morale Teachers According to Rural-Urban School Groupings and Level of IQ

Students of "High" Morale Teachers

	Rural-i			
Level of IQ	More Than	30 - 50 %	Less Than	All
	50% Rural	Rural	30% Rural	Students
"High"	235.12	235 . 21	235 . 26	235 . 20
	(54)*	(78)	(51)	(183)
"Medium"	235.73	235 . 30	225.10	232.04
	(153)	(213)	(103)	(469)
"Low"	228.68	229 . 32	224 . 39	227.57
	(66)	(84)	(26)	(176)
All Students	233.18	233 . 28	228 . 25	231.57
	(273)	(375)	(180)	(828)

Students of "Low" Morale Teachers

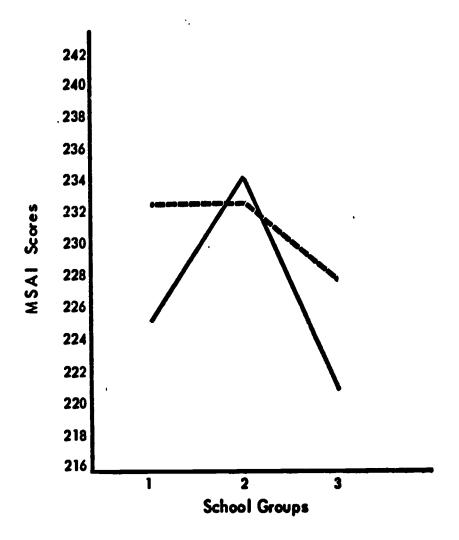
Rural-Urban School Groups 30-50% More Than All Less Than 50% Rural 30% Rural Rural Students Level of IQ 242.34 "High" 228.45 222.45 231.04 (33) (38) (53) (124)232.94 235.63 221.19 "Medium" 229.22 (103)(63) (159) (325) 221.64 216.38 227.40 221.81 "Low" (36) (130) (96) (262)227.59 235.09 221.76 All Students 225.93 (172)(231) (308)(711)



^{*} Numbers in parentheses indicate the number of students.

FIGURE IV

Mean MSA1 Scores for Students of "High" and of "Low" Morale Teachers According to Rural-Urban School Groups



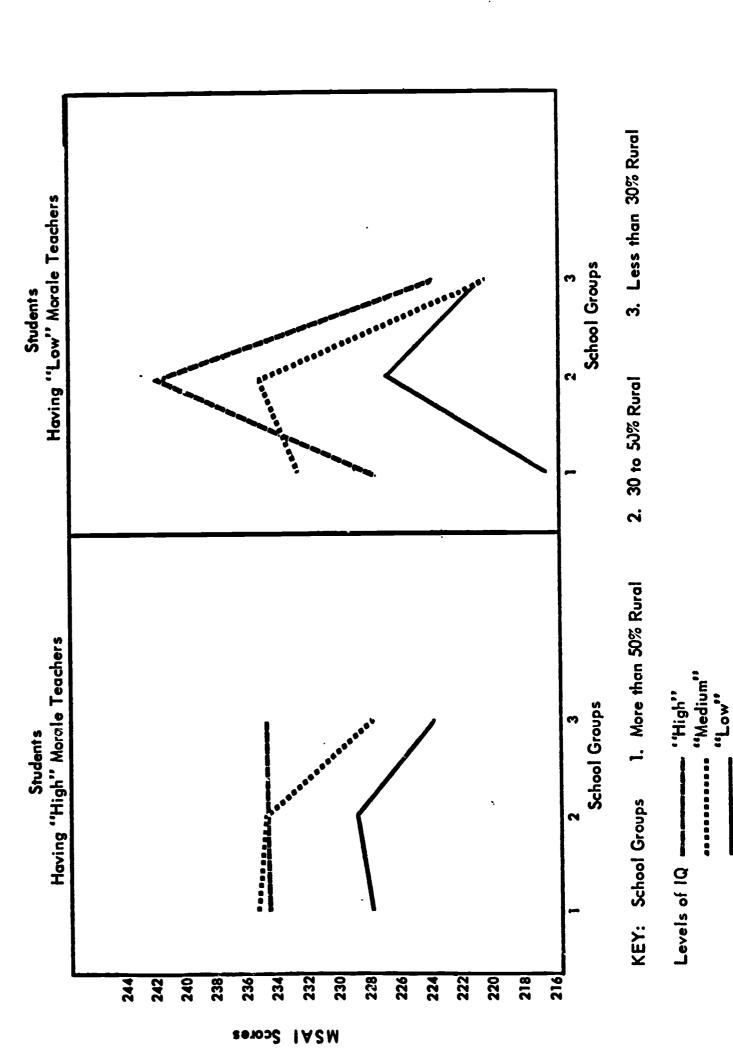
KEY: School Groups

- 1. More than 50% Rural
- 2. 30 to 50% Rural
- 3. Less than 30% Rural



FIGURE V

Mean MSA! Scores for Students of "High" and of "Low" Morale Teachers
According to Rural-Urban School Groups and Levels of 1Q





"This teacher makes careful plans for each day's work."

"This teacher is cool and calm."

"This is the best teacher I ever had."

"This teacher certainly knows what he is doing."

"This teacher makes it fun to study things."

"This teacher never slaps or handles us roughly.

TABLE IX.

Percentages and Chi-Squares for Responses of Students of "High" and of "Low" Morale Teachers for Minnesota Student Attitude Inventory Items

Positively Oriented Items

				Per	Percentages of Responses			
	Item	Morale Group	No. of Students	SAl	A ²	บ3	D ⁴	SD ⁵
1.	This teacher asks our							
	opinion in planning	"High"	800	10.9	52.5	16.3	14.3	6.1
	work to be done.	"Low"	709	10.7	51.6		16.9	5.6
2.	This teacher keeps order							
	with a fair and firm	"High"	800	17.6	50.0	14.4	12.5	5.6
	hand.	"Low"	708	21.8	49.6	13.7	10.2	4.8
2	T and all and a 22 and	****						
۶.	I get along well with	"High"	799	33.8	49.2	11.1	4.3	1.6
	this teacher.	"Low"	709	36.0	47.4	10.2	3.9	2.5
4.	I find it easy to talk	"High"	798	34.6	47.9	8.5	6.0	3.0
	to this teacher.	"Low"	707	34.0	45.0		6.8	2.1
** 5.	This teacher never asks							
	trick questions to show	"High"	798	19.4	35.3	19.5	10.2	4.
	how dumb we are.	"Low"	709	15.5		20.0	19.3	6.4
		2011	107	±/•/	2102	20.0	26.0	11.3
*7.	This teacher never							
	slaps or handles us	"High "	799	1:4.8	31.9	8.0	8.3	7.0
	roughly.	"Low"	709	36.8	34.0	11.4	9.9	7.9
	- · ·		1-/	J-10	J400		7•7	107

Key 1 SA - Strongly Agree. 2 A - Agree. 3 U - Undecided. 4 D - Disagree 5 SD - Strongly Disagree.

^{**} Significant chi-square at one per cent level.



^{*} Significant chi-square at five per cent level.

		_		Percentages of R			lesponses	
	Item	Morale Group	No. of Students	sA ¹	A ²	บ ³	D4	SD ⁵
	This is one of the best teachers I have ever had.	"High" "Low"	800 708	35.1 30.2	29.4 30.5	18.9 21.9	11.4	5.3 7.1
	This teacher makes sure we understand our work.	"High" "Low"	800 708	22.8 25.0	52.4 50.7	12.8	9.6 9.9	2.5 2.8
-	This teacher really understands boys and girls my age.	"High" "Low"	798 708	17.9 21.3	45.5 43.5		6.6 7.6	2.5 3.4
15.	Our teacher is very good at explaining things clearly.	"High" "Low"	79 7 709	21.0 21.3	53.6 48.2	15.9 17.9	7.8 8.7	1.8 3.8
**19 .	This teacher certainly knows what he is doing.	"High" "Low"	800 708	28.5 31.8	-	12.5 16.5	4.9 6.8	3.9 2.1
**21.	This teacher makes it fun to study things.	"High" "Low"	800 708	12.6 14.0	38.1 29.8	28.4 30.5	15.0 18.5	5.9 7.2
. 23.	Our teacher never gives us extra assignments as punishment.	"High" "Low"	799 706	20.4 18.8	35.7 33.0	11.0	23.0 22.0	9.9 14.0
*24.	This teacher wants to check our work to make sure we are on the right track.	"High" "Low"	798 709	21.4 24.3	59.6 50.9	9.4 13.4	7.1 8.2	2.4 3.2
25.	I really like this class.	"High" "Low"	799 706	44.3 40.4	36.4 37.2	10.4 12.8	6.4 7.1	2.5 2.6
*27.	This teacher helps us get the most out of each hour.	"High" "Low"	799 696	16.8 14.5	50.7 46.0	17.8 24.7	11.1	3.6 1.7
**28 .	This teacher is cool and calm.	"High" "Low"	799 708	24.2 16.0	46.6 43.5	19.3 19.8	7.6 14.7	2.4 6.1
30.	When I am in trouble I can count on this teacher to help.	"High" "Low"	798 689	18.0 18.0	36.0 34.2		11.8	7.3 8.1
33•	This teacher thinks clearly.	"High" "Low"	800 709	24.2 22.1	56.5 53.2	12.1 13.5	4.9 8.7	2.2 2.0
35•	This teacher lets us discuss things in class.	"High" "Low"	802 708	39.6 41.8	50.9 48.0	3.4 3.1	4.4 4.9	1.8 2.1

•		Vanala	N	Percentages of Responses				
	Item	Morale Group	No. of Students	sal	A ²	υ ³	D 4	SD ⁵
*37•	This teacher makes everything seem interesting and important.	"High" "Low"	800 709	19.6 16.9	43.4 39.5	19.0 23.7	14.2 15.2	3.8 4.6
39•	This teacher knows a lot.	"High" "Low"	800 708	35.9 32.1	•	11.6 13.4	3.2 4.4	2.5 3.0
40.	This teacher is quick to see a point.	"High" "Low"	800 709	19.0 15.8	50.4 49.5	20.5 22.1	7.5 8.7	2.6 3.8
**42.	This teacher never gets angry and shouts at us.	"High" "Low"	798 7 09	10.3 5.6	27.3 24.2	18.8 19.6	33.5 35.5	10.2 15.9
**46.	This is the best teacher I have ever had.	"High" "Low"	799 708	25.4 19.4	22.0 21.6	29.9 34.9	16.4 16.0	6.3 8.0
49.	I wish I could have this teacher next year.	"High" "Low"	800 704	40.0 38.8	34.2 35.1	14.6 14.2	5.2 5.3	5.9 6.7
50.	This teacher has lots of fun with us.	"High" "Low"	800 707	24.1 27.2	50.6 50.6	15.9 13.7	6.9	2.5 2.5
**52.	This teacher makes care- ful plans for each day's work.	"High" "Low"	798 708	9.8 6.5	40.1 25.8		14.5 23.6	3.9 6.5
* 54 .	This teacher helps students when they have problems with their work.	"High" "Low"	798 708	35•7 37•6	52.1 45.6	5.9 6.2	4.4 7.5	1.9 3.1
57•	This teacher always takes time to find out your side of a difficulty.	"High" "Low"	79 8 707	15.5 17.1	48.4 46.7	21.4 19.7	11.6 12.6	3.0 4.0
58.	This teacher never pushes or shakes us in anger.	"High" "Low"	795 704	31.7 29.0	37.0 35.9	10.7 13.2	12.7 12.8	7.9 9.1
60.	This teacher likes to hear students ideas.	"High" "Low"	796 708	28.6 31.9	54.0 46.5	10.4 13.0	4.3 5.2	2.6 3.4
**62 .	We behave well in this class even when the teacher is out of the room.	"High" "Low"	787 704	3.9 5.5	22.1 13.4	26.7 26.7	27.7 33.0	19.6 21.4



II. Negatively Oriented Items

			Wa a A	Percentages of Responses				nses
	Item	Morale Group	No. of Students	sa ¹	A ²	υ ³	D^4	sd^5
6.	Most of us get pretty bored in this class.	"High" "Low"	798 707	5.5 6.6	10.2 7.6	15.5 12.7		
8.	No one dares talk back to this teacher.	"High" "Low"	799 709	11.4 10.2	24.3 28.6		28.5 28.5	10.6 8.0
10.	I just don't trust this teacher.	"High" "Low"	800 708	4.0 2.7	2.9 4.0	• -	27.5 23.3	58.5 62.6
*11.	It is easy to fool this teacher.	"High" "Low"	798 708	5.5 4.2	8.4 6.5	14.2 13.3	43.7 40.3	28.2 35.7
**13.	This teacher often sends boys and girls out of the room as punishment.	"High" "Low"	799 708	2.5 5.9	11.0	11.1	39.9 34.6	35.4 35.3
16.	Frankly we don't pay attention to this teacher.	"High" "Low"	800 709	2.6 2.7	10.6	12.5 13.1	50.0 45.8	24.5 27.8
17.	This teacher has lost the respect of the class.	"High" "Low"	800 707	5.0 4.5	8.1	9.5 11.9	32.6 31.0	44.8 43.8
18.	Sometimes things "get out of control" in this class.	"High" "Low"	800 707	6.5 8.6	29.1 30.7	16.8 14.0	30.5 32.3	17.1
20.	This teacher often bawls you out in front of the class.	"High" "Low"	797 708	8.8 10.7	24.9 27.0	13.0 14.6	36.1 32.1	17.3 15.7
22.	This teacher has some special favorites or "teacher's pets."	"High" "Low"	800 709	14.6 14.4		19.2 18.3		22.0 27.5
26.	Sometimes I think this teacher is deaf.	"High" "Low"	799 709	5.0 3.8	9.1 9.9		35.6 35.8	37.8 41.0
29.	In this class we fool around a lot in spite of the teacher.	"High" "Low"	798 709	9.1 9.2		16.7 16.8		16. 7 17.9
**31.	This teacher becomes confused easily.	"High"	800 709	3.0 4.4		14.6 14.4		30.4 32.4
**32.	This teacher will punish the whole class when he can't find out who did something bad.	"High" "Low"	800 689	6.6 8.7	21.9	20.0	30.4 33.4	21.1 18.7



			Percentages of Response			ses	
Item	Morale Group	No. of Students	SAl	A ²	3ئ	D4	SD ⁵
34. Some of the students are smarter than this teacher.	"High" "Low"	800 709	3.5 6.1	7.1 6.9	10.9		46.2 48.2
36. It is fun to see how much we can whisper before we get caught.	"High" "Low"	799 709	6.4 6.2		17.4 18.6	-	24.9 23.0
38. I wish I could get even with this teacher.	"High" "Low"	800 709	2.6 4.0	4.5 4.1		32.9 32.3	50.1 50.9
41. This teacher is too bossy.	"High" "Low"	799 705	3.0 4.0		13.5 14.0	49.1 48.1	26.9 24.4
43. We often complain just to get out of work.	"High" "Low"	799 708	5.1 5.6	21.4 25.6	18.1	41.0 36.7	14.3 13.3
44. If I could get away with it, I'd sure like to tell this teacher off.	"High" "Low"	799 707	3.6 7.1	6.3 5.5	11.4	33.2 31.5	
45. This class is noisy and fools around a lot.	"High" "Low"	800 708	8.9 9.3		15.8 18.2		18.2 16.2
47. You can't walk around in this class without permission.	"High" "Low"	798 707	4.5 5.5	18.9	13.7		19.9 18.7
48. It seems that somebody is always getting punished in this class.	"High" "Low"	800 708	2.1 2.8	•		48.4 47.9	
51. Sometimes just thinking about this class makes me sick.	"High" "Low"	798 706	2.5 3.7			35.0 34.6	47.5 44.6
53. I have had bad dreams about this class.	"High" "Low"	797 708	2.4 2.0	_		31.4 30.1	
55. Frankly, we just don't obey the teacher in this class.	"High" "Low"	796 705	2.8 4.0	9.0 8.1	13.6 13.5		32.5 31.2
56. There is something about this class that makes me feel very uneasy.	t "High" "Low"	797 708	2.5 3.8	8.0 7.1	10.4	45.3 47.9	33.6 30.9



		M = 0	Percentages of Responses					
	Item	Morale Group	No. of Students	sa ¹	A ²	υ ³	D^4	SD ⁵
<i>5</i> 9•	This teacher punishes me for things I don't do.	"High" "Low"	798 707	3.3 5.1	8.9 8.1	-	37.0 33.4	
*61.	I think this teacher has a grudge against me.	"High" "Low"	791 707	3.4 5.4	6.1 4.4		33.6 28.1	

B. SRA Youth Inventory (My School Section).

The "My School Section" of the SRA Youth Inventory is a measure of student feelings about the extent and intensity of the problems related to their school work. Students experiencing the greatest degree of difficulty with their school work are likely to get the highest scores on the Inventory.

Again, a 2x3x4x3 factorial experiment was carried out using the SRA Youth Inventory scores as the criterion measure. The summary of the analysis of variance is given in Table X. The mean score for students of the "high" morale group does not differ significantly from the mean score of the "low" teacher morale group. However, significant differences do occur when the SRA mean scores are compared by grades, by level of IQ, and for rural-urban groups within each morale category. A significant interaction was found to exist with respect to grades and the rural-urban groupings within morale categories. All other interactions tested were non-significant.

The actual mean scores according to grades and level of IQ are presented in Table XI. As mentioned previously, differences between grades are significant. For students in both morale groups the problems become more intense from ninth to tenth grade, and reach their peak in the eleventh grade. There is a sharp drop in the intensity of these problems



when the students reach the twelfth grade. Twelfth graders have less difficulty than the ninth graders (see Figure VI).

Summary of Analysis of Variance for SRA (My School Section) Score Means

Source	d.f.	SS	MS	· F	·
Grades	3	178,50	59.50	3.68	P <.05
Morale	1	.70	.70	.04	NS
Rural-Urban Group Within Morale	4	262.34	65.58	4.06	P<.05
Grades x Morale	3	56.41	18.80	1.16	NS
Grades x Rural-Urban Group Within Morale	12	452.39	37.70	2.33	P <.05
IQ	2	1415.76	757.38	46.87	P<.05
Grades x IQ	6	87.91	14.65	.91	NS
Morale x IQ	2	14.72	7.36	•46	NS
Rural-Urban Group Within Morale x IQ	8	128.68	16.08	•99	NS
Grades x Morale x IQ	6	91.47	15.24	•94	NS
Grades x Rural-Urban Group Within Morale x IQ	24	471.16	19.63	1.21	NS
Error	1467	324,643.45*	221.30 *	$s\frac{2}{x} = 1$	16.1603
Total	1538				
* Per Observation Basis n _h = -	72	= 13.6939			

* Per Observation Basis -- $\bar{n}_h = \frac{72}{5.2578} = 13.6939$

The extent of difficulty with school work is definitely related to the level of intelligence. This can be clearly seen from the graphs in Figures VII and VIII. As the IQ level of students increases, the extent and intensity of difficulty with school work decreases. For all IQ



levels, the greatest student difficulties occur in the eleventh grade except for the "medium" IQ students in the "low" teacher morale group.

TABLE XI.

Mean SRA Scores for Students of "High" and of "Low" Morale Teachers
According to School Grades and Level of IQ

Students of "High" Morale Teachers

•		Gra	All		
<u>Level of IQ</u>	9	10	11	12	Students
"High"	41.03	46.00	47.91	35.88	41.83
	(77)*	(45)	(29)	(32)	(183)
"Medium"	46.11	44.27	48.66	46.27	46.33
	(152)	(132)	(95)	(90)	(469)
"Low"	49.91	51.60	55.77	50.97	52.76
	(51)	(43)	(47)	(35)	(176)
All Students	45.68	46.20	50.78	44.36	46.76
	(280)	(220)	(171)	(157)	(828)

Students of "Low" Morale Teachers

	•	All			
Level of IQ	. 9	10	11	12	Students
"High"	37.86	39.14	44.28	40.35	40.41
	(49)	(35)	(13)	(27)	(124)
"Medium"	47.42	49.71	45.56	44.69	46.59
	(123)	(98)	(86)	(85)	(392)
"Low"	52.57 (58)	53.57 (47)	53.88 (51)	51.69 (39)	52 . 67 (195)
All Students	45.95	47.14	47.57	45.57	46.56
	(230)	(180)	(150)	(151)	(711)

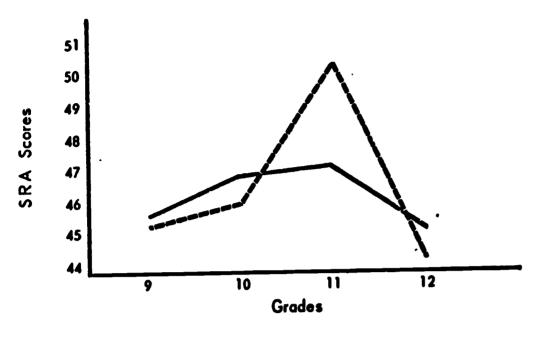
^{*} Numbers in parentheses indicate number of students.

The comparisons of mean SRA scores according to the rural-urban classification are difficult to interpret. Differences in mean scores are significant among the three rural-urban groups within each morale



FIGURE VI

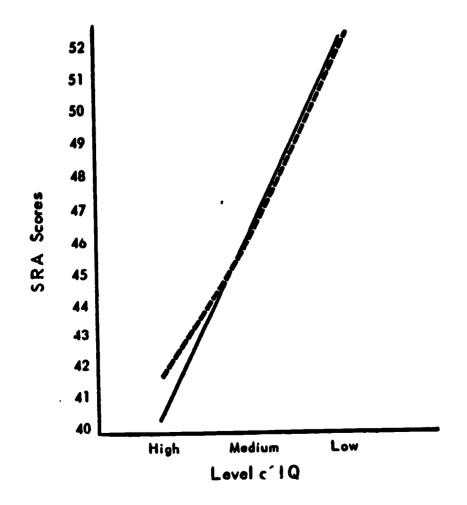
Mean SRA Scores for Students of "High" and of "Low" Morale Teachers
According to School Grades



KEY: Morale -----'High''

FIGURE VII

Mean SRA Scores for Students of "High" and of "Low" Morale Teachers
According to Levels of I Q

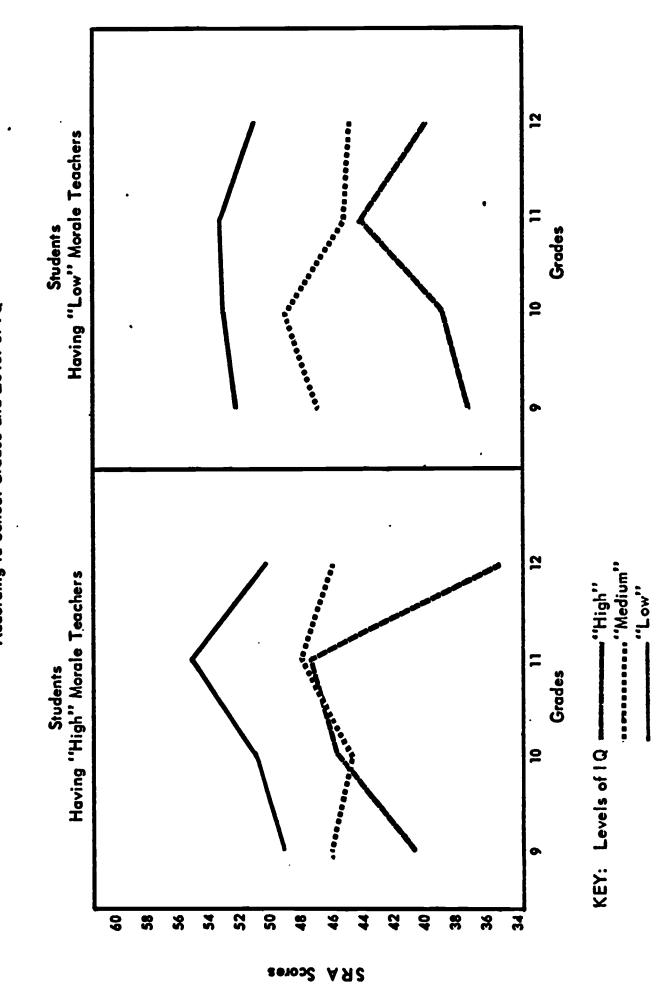


KEY: Morale _____ "High"



FIGURE VIII

Mean SRA Scores for Students of "High" and of "Low" Morale Teachers According to School Grades and Level of IQ





category. However, the patterns of the mean, when comparisons are made between the "high" and "low" morale groups and for levels of IQ are inconsistent (Table XII and Figures IX and X).

TABLE XII.

Mean SRA Scores for Students of "High" and of "Low" Morale Teachers
According to Rural-Urban School Grouping and Level of IQ

A. Students of "High" Morale Teachers

	Rural-U			
Level of IQ	More Than	30-50%	Less Than	All
	50% Rural	Rural	30% Rural	Students
"High"	39,22	41.55	44.86	41.83
	(54)*	(78)	(51)	(183)
"Medium"	44.91	45.67	48.40	46.33
	(153)	(213)	(103)	(469)
"Low"	53.54	49.81	55.86	52.07
	(66)	(84)	(26)	(176)
All Students	44.89 (273)	45.6 8 (375)	49.70 (180)	46.76 (828)

B. Students of "Low" Morale Teachers

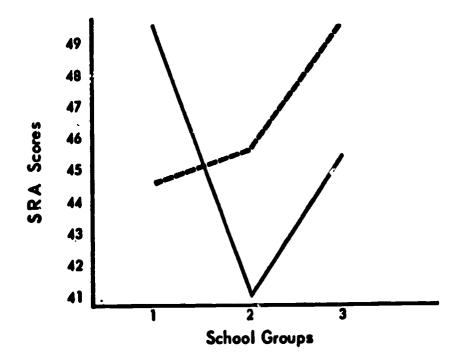
	Rural-U			
	More Than	30-50%	Less Than	All
Level of IQ	50% Rural	Rural	30% Rural	Students
"High"	39.12	39.91	42.20	40.41
	(33)	(38)	(53)	(124)
"Medium"	48.31	44.66	46.81	46.59
	(103)	(63)	(159)	(325)
"Low"	57 . 29	48.20	52.53	52.67
	(36)	(130)	(96)	(262)
All Students	49.78	41.43	45.50	46.56
	(172)	(231)	(308)	(711)

^{*} Numbers in parentheses indicate the number of students.



FIGURE IX

Mean SRA Scores for Students of "High" and of "Low" Morale Teachers According to Rural-Urban School Groups



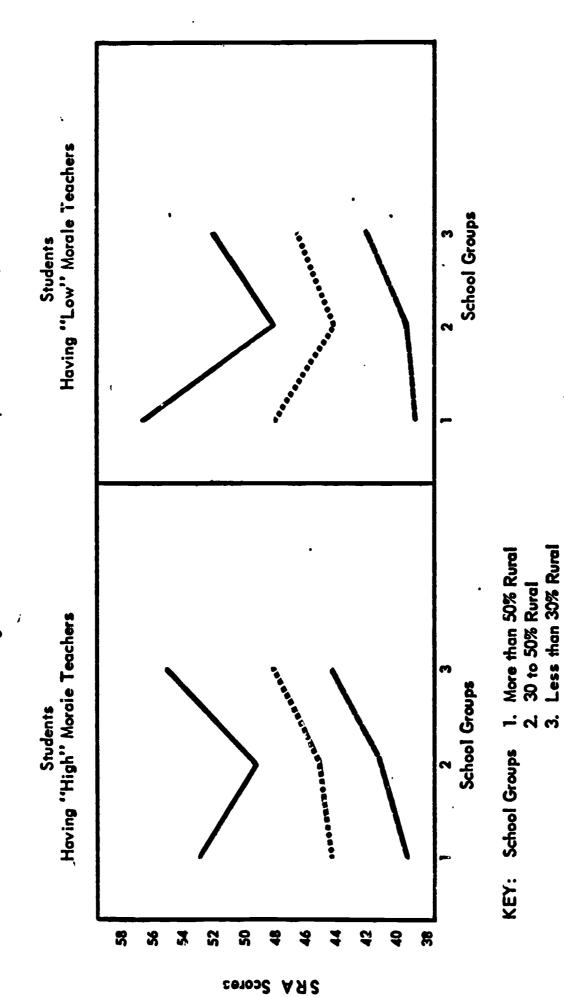
KEY: School Groups 1. More than 50% Rural

- 2. 30 to 50% Rural
- 3. Less than 30% Rural



FIGURE X

Mean SRA Scores for Students of "High" and of "Low" Morale Teachers
According to Rural-Urban School Groups and Level of I Q



-'High.

Levels of 1Q -

"Low"



C. Academic Aptitude

In all of the comparisons made in this study, the IQ factor played an important role. From Table XIII it can be seen that differences were significant for grade level, for teacher morale groups, and for the rural-urban classification. None of the interactions tested were significant.

TABLE XIII.

Summary of Analysis of Variance of IQ Score Means

Source	d.f.	SS	MS	F		
Grade	3	61.37	20.46	6.54	P <-05	
Morale	1	35.96	35.96	11.49	P <.05	
Rural-Urban Groups Within Morale	4	33.58	8.40	2.68	P <.05	
Grade x Morale	3	2.55	. 85	0.27	NS	
Grade x Rural-Urban Groups Within Morale	12	61.04	5.09	1.63	NS	
Error	1515	270,955.74*	178.85*	$s_{\bar{x}}^2 = 3.13$		
Total	1538					
# Down Observation Registry D. #	24	= 57.14				

* Per Observation Basis - $\overline{n_h}$ = $\frac{24}{0.4200}$ = 57.14

The mean IQ scores for students of "low" morale teachers were uniformly lower than the mean IQ scores for students of "high" morale teachers for all four grades (Table XIV and Figure XI). For the schools that were the most rural, the mean IQ scores were practically identical in the two morale groups. However, in the other rural-urban groups the mean scores in the "high" morale group were significantly higher, particularly in the most urban schools (Table XV and Figure XII).



Mean IQ Scores for Students of "High Morale and of "Low" Morale Teachers According to School Grades

		All			
<u>Level of Morale</u>	9	10	11	12	Students
"High"	102.39 (280)*	99 . 94 (220)	97.95 (171)	100.48 (157)	100.19 (828)
"Low"	99 . 23 (230)	97 . 97 (180)	94.94 (150)	98.83 (151)	97.74 (711)
All Students	100.81 (510)	98 . 95 (400)	96.47 (321)	99.66 (308)	98 . 97 (1539)

^{*} Numbers in parentheses indicate the number of students.

TABLE XV.

Mean IQ Scores for Students of "High" and of "Low" Morale Teachers

According to Rural-Urban School Grouping

Rural-Ur	ban	School	Groups
----------	-----	--------	--------

Level of Morale	More Than	30 - 50 %	Less Than	All
	50% Rural	Rural	30% Rural	Students
"High"	99.19 (273)*	99•34 (375)	102.30 (180)	100.19
"Low"	99 . 13	97.46	96.64	97.74
	(172)	(231)	(308)	(711)
All Students	99 . 16	98 . 40	99•75	98 . 97
	(445)	(606)	(488)	(1539)

^{*} Numbers in parentheses indicate the number of students.



FIGURE XI

Mean I Q Scores for Students of "High" and of "Low" Morale Teachers According to School Grades

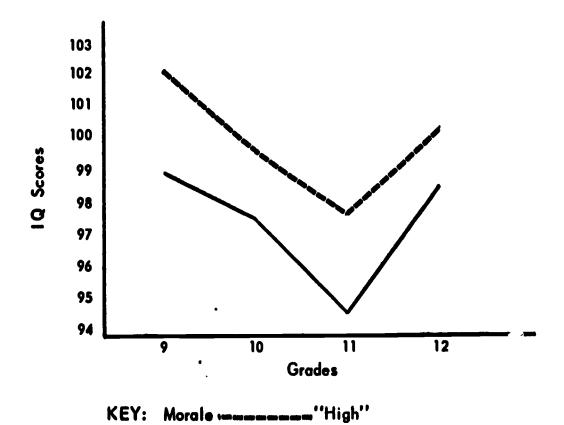
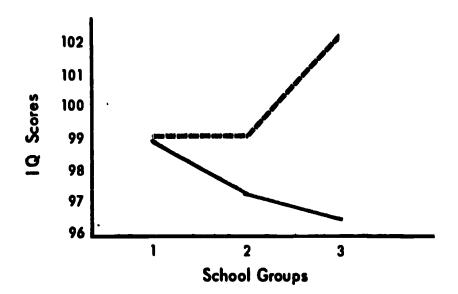


FIGURE XII

Mean IQ Scores for Students of "High" and of "Low" Morale Teachers According to Rural-Urban School Groups



KEY: School Groups 1. More than 50% Rural

- 2. 30 to 50% Rural
- 3. Less than 30% Rural

"High" Morale



VI. SUMMARY AND CONCLUSIONS

The main purpose of this study was to compare selected student attitudes in vocational agriculture departments where teachers had either extremely "high" morale or extremely "low" morale. The teachers were selected on the basis of their morale scores on the Purdue Teacher Morale Inventory -- 21 in the "high" morale group, and 21 in the "low" morale group.

The following instruments were administered to all of the agriculture students taught by the teachers in the sample: (1) the Minnesota Student Attitude Inventory — to measure student attitudes regarding their teacher, (2) the SRA Youth Inventory (My School Section) — to indicate student feelings about the extent and intensity of problems related to their school work, and (3) the Lorge-Thorndike Intelligence Test.

The findings can be summarized as follows:

significantly higher than the mean score for students of "low" morale teachers. Differences in MSAI mean scores were also significantly different with respect to the IQ level of the students — with the highest MSAI scores occurring in the "high" IQ group and the lowest in the "low" IQ group. Within each of the two morale categories mean comparisons in terms of the rural-urban classification of the schools again revealed significant differences with the scores being lowest in the most rural and the most urban schools. Differences across grades were non-significant.

For 18 of the 62 MSAI items, the student responses were more favorable, at or beyond the five per cent level of significance, in the "high" teacher morale situations. For the remaining



items, in general, responses favored the "high" morale teachers but observed differences were not significant at the five per cent level. The greatest differences occurred for items pertaining to teacher planning, classroom control, and general classroom climate.

- 2. The mean score on the SRA Youth Inventory (My School Section) for the students of "high" morale teachers and the mean score for students of "low" morale teachers were practically identical (46.76 and 46.56). A significant difference was found to exist between SRA means for rural-urban groups within each morale category. These differences were difficult to interpret due to significant interaction of the rural-urban factor with the grade factor. The extent of difficulty with school work as measured by the SRA Youth Inventory was also significantly related to grade level. The students in the eleventh grade were experiencing most difficulty with school work. Observed differences indicate that "high" IQ students tend to have the more favorable SRA scores than "Low" IQ students.
- 3. In all of the comparisons made in this study, IQ played an important role. In general, the mean IQ level of students was higher in the "high" morale teacher situations. Significant differences in IQ were found to exist with respect to school grade and the rural-urban classification of the schools.



APPENDICES



APPENDIX A.

VOCATIONAL AGRICULTURE VIEWPOINT INVENTORY

Division of Education Purdue University

The purpose of this inquiry is to discover the viewpoints of school administrators regarding Vocational Agriculture. These viewpoints will furnish a basis for studying certain aspects of Vocational Agriculture as a phase of a secondary school program.

Directions

Below are a number of statements regarding Vocational Agriculture. Please indicate your reaction to each statement by encircling the response which best represents your thinking. Please react to all statements.

Use this scale: SA - strongly agree A - agree

D - disagree

SD - strongly disagree

1.	Having a vocational agriculture program in a secondary school causes too many administrative problems	SA	A	D	SD .
2.	The teacher of vocational agriculture should visit his students on their home farms at least three times a year	SA	A	D	SD
3.	Farm mechanics instruction should be given in each a mool that maintains a department of vocational agriculture	SA	A	D	SD
4.	A Future Farmers of America chapter should be organized in each school that maintains a department of vocational agriculture	SA	A	D	SD
5•	The Future Farmers of America organization aids students of vocational agriculture to develop desirable social and civic interests and abilities	SA	A	D	SD
6.	A state course of study should be developed for vocational agriculture	SA	A	D	SD
7.	The development of a local program of vocational agriculture depends largely upon the degree to which school administrators encourage and support the program	SA	A	D	SD
ERIC	The time needed for making home farm visits to students of vocational agriculture should be recognized as part of the agriculture teacher's load	SA	. A	D	SD

	Instructional programs for adult farmers should be <u>organized</u> and <u>conducted</u> in each school that maintains a department of vocational agriculture	SA	A :	D :	SD
10.	The teacher of vocational agriculture should visit his students on their home farms in order to provide individual instruction and to supervise the student's farming program	SA	A	D	SD
11.	The cost of <u>facilities</u> and <u>equipment</u> for vocational agriculture can be justified	SA	A	D	SD
12.	Vocational agricultural courses deserve credit equal to academic courses in the secondary school curriculum	SA	A	D	SD
13.	Opportunities to study vocational agriculture should be provided for high school students	SA	A	D	SD
14.	All agricultural education for adult farmers should be pro- vided by agricultural agencies other than the public schools	SA	A	D	SD
15.	School <u>owned</u> and <u>operated</u> buses should be available for transporting vocational agriculture students on field trips	SA	A	D	SD
16.	The per pupil cost of vocational agriculture is justifiable in a public school program	SA	A	D	SD
17.	Departments of vocational agriculture should be maintained in Indiana high schools where such work is needed even though they are not reimbursed with federal funds	SA	A	D	SD
18.	Teachers of vocational agriculture should be employed for twelve months	SA	A	D	SD
19.	All farm boys should be required to take courses in vocational agriculture	SA	A	D	SD
20.	Instructional programs for young farmers should be <u>organized</u> and <u>conducted</u> in each school that maintains a department of vocational agriculture	SA	A	D	SD

APPENDIX B.

PURDUE UNIVERSITY Division of Education Lafayette, Indiana

PERSONAL DATA FORM

(Please record your responses directly on this form).

1.	Circle your age bracket:	20-25	26-30	31-35	36-40	41-45	
		46-50	51- 55	56 – 60	Over 60	•	
2.	Check the highest level	of education	n you have	completed	•		
	 a. Bachelor's degree b. Bachelor's degree c. Master's degree d. Master's degree e. More than Master' 	plus 12 se quivalent .	mester hou	rs	•		
3.	Circle the number of year present year.	rs you have	been enga	ged in tea	ching, inc	luding the	
	1-2 3-5 6-9	10-14	15-19	20-24	25-30	More than 30)
4.	Circle the number of year position, including the	rs of teach present yea	ing you ha	ve complet	ed in your	· present	
	1-2 3-5 6-9	10-14	15-19	20-24	25-30	More than 30	D
5.	Circle the number of dif	ferent sch	ool systems	in which	you have t	aught.	
	1 2 3 4	5 M o	ore than 5				
·6.	How well pleased are you						ng:
	 a. Thoroughly satisfied b. Satisfied but wow c. Somewhat dissatist d. Thoroughly dissatist 	ld consider	r a change i change i i	I could	• • • • • • • • • •		

ERIC Frontided by ERIC

7.	The future of Vocational Agriculture in Indiana is encouraging. Which one of the following best indicates your opinion regarding this statement?
	a. Agree
	b. Probably agree · · · · · · ·
	c. Probably disagree
	d. Disagree
8.	Are you a tenure teacher? Yes No
9.	If you were starting your college work over again, would you choose to special- ize in Agricultural Education?
	Yes No Uncertain

ERIC.

APPENDIX C.

Means and Standard Deviations of MSAI Scores for Students of "High" and of "Low" Morale Teachers by Schools

"High" Morale Teacher Schools			"Low" Morale Teacher Schools				
School Code	No. of Students	Mean	Standard Deviation	School Code	No. of Students	Mean	Standard Deviation
H1-3	49	254.80	23.68	11-29	41	250.20	25.99
H1-8	23	224.96	34.84	11-26	36	247.11	25.82
H1-20	41	224.54	28.56	L1-9	29	235.21	25.66
H1-54	26	215.61	39.40	11-16	24	233.25	21.80
H1-42	4C	204.58	29.52	L1-46	19	218.95	23.77
•	·			L1-13	35	215.71	43.58
H2-10	42	249.88	20.40	11-11	32	212.12	24.62
H2-23	68	248.21	22.73	11-22	47	210.29	32.28
H2-47	31	242.42	24.01	L1-41	19	204.90	23.02
H2-45	46	237.67	30.18	11-12	22	187.33	35.52
H2-43	15	234.73	24.75				
н2-7	61	233.28	30.91	L2-53	36	249.17	23.29
H2-40	41	222.83	26.53	12-15	29	238.86	22.59
H2-34	29	222.45	19.85	12-6	52	237.86	23.80
H2-19	42	199.64	32.18	L2-35	45	230.07	24.47
				L2-48	26	228.81	32.74
н3-2	29	238.21	29.77	L2-36	42	227.33	26.55
H3-27	38	237.66	25.86				
н3-37	34	236.32	27.55	L3-39	28	248.43	24.60
Н325	73	235.93	25.86	L3 - 60	21	233.95	25.45
H3-18	25	232.56	28.01	L3-1	52	227.62	28.36
H3-38	41	231.85	26.90	L3-32	43,	225.46	35.04
н3-33	33	224.18	17.65	L3-5	30	220.83	34.30



APPENDIX D.

Means and Standard Deviations of SRA Youth Inventory (My School Section) Scores for Students of "High" and of "Low" Morale Teachers by Schools

"High" Morale Teacher Schools				"Low" Morale Teacher Schools				
School Code	No. of Students	Mean	Standard Deviation	School Code	No. of Students	Mean	Standard Deviation	
H1-54	26	43.15	13.28	11-26	36	40.56	14.25	
H1-3	49	43.49	11.13	11-41	19	41.26	13.17	
H1-42	40	49.80	16.24	11-9	29	42.17	10.15	
H1-8	23	51.17	13.01	11-16	24	43.08	15.26	
H1-20	41	51.59	13.20	11-29	41	45.00	15.18	
				11-11	32	45.66	14.58	
				11-12	22	53.05	15.63	
H2-43	15	29.93	15.87	11-22	47	53.85	11.94	
H2-10	42	41.57	14.25	11-13	35	55.69	21.36	
H2-7	61	41.59	17.29	L1-46	19	56.11	16.34	
H2-34	29	43.03	13.90					
H2-47	31	44.23	14.32				/ .	
H2-19	42	45.60	13.96	L2-53	36	42.92	14.61	
H2-23	68	46.22	13.93	12-6	52	44.14	14.92	
112-40	41	50.95	15.43	12-36	42	44.24	13.29	
H2-45	46	56.87	13.21	12-35	45	45.53	12.95	
,				12-48	26	45.54	. 14.46	
				12-15	29	47.31	12.45	
н3-2	29	40.83	16.31					
H3-37	34	41.50	16.82				2/ 00	
H3 - 33	33	44.70	15.06	L3-32	41	46.34	16.02	
н3-27	38	44.87	15.65	L3-1	52	46.79	17.01	
H3 - 18	25	45.48	11.33	L3-60	21	48.62	17.80	
н3-38	41	46.34	16.60	L3-5	30	48.80	19.69	
н3-25	73	46.89	15 ,88	13-39	28	51.50	17.94	

Means and Standard Deviations of IQ Scores for Students of "High" and of "Low" Morale Teachers by Schools

APPENDIX E.

"High" Morale Teacher Schools				"Low	"Low" Morale Teacher Schools			
School	No. of	eacher be	Standard	School	No. of		Standard	
Code	Students	Mean	Deviation	Code	Students	Mean	Deviation	
H1 - 3	49	111.49	13.94	11-41	19	103.79	8.79	
H1-8	23	99.48	11.87	L1-9	29	100.97	10.47	
H1-20	41	99.02	15.22	L1-13	35	99.97	11.10	
H1-42	40	98.98	11.21	11-11	32	98.84	16.78	
H1-54	26	97.85	23.98	11-12	22	97.95	15.71	
11.1.	20	,,,,,	• .	L1-29	41	96.83	10.22	
				11-26	36	96.53	16.90	
H2 -1 0	42	103.88	12.54	11-16	24	94.67	17.53	
H2-34	29	102.45	9.73	11-22	47	92.71	12.29	
H247	31	101.61	13.14	L1-46	19	91.74	13.64	
H2-43	15	101.20	11.96					
H2-40	41	100.90	10.83	•				
H2-7	61	99.66	14.63	L2-6	52	100.78	13.78	
H2-19	42	97.91	12.16	L2-48	26	100.46	17.87	
H2-23	68	96.78	10.82	L2-53	36	98.19	11.53	
H2-45	46	94.74	10.76	L2-15	29	96.35	13.16	
112-47	40	,-,-,-,-		L2-35	45	95.82	12.94	
				L2 - 36	42	93.76	12.00	
Н337	. 34	104.85	14.42					
н338	41	104.20	12.63					
н3-27	38	99.82	11.37	L3-39	28	104.89	10.95	
Н3-33	33	99.12	14.03	L3-1	52	101.02	12.13	
H3-18	25	96.60	11.44	L3-5	30	96.83	13.18	
H32	29	96.35	18.51	L3-32	41	96.66	14.68	
Н325	73	95.62	13.75	L3-60	21	95.33	10.10	

